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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,586	05/22/2007	Toshiyuki Mizutani	2006-1460A	3394
513 7590 01/29/2010 WENDEROTH, LIND & PONACK, L.L.P. 1030 15th Street, N.W.,			EXAMINER	
			HANNON, THOMAS R	
Suite 400 East Washington, DC 20005-1503			ART UNIT	PAPER NUMBER
			3656	
			MAIL DATE	DELIVERY MODE
			01/29/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Commence	10/591,586	MIZUTANI, TOSHIYUKI				
Office Action Summary	Examiner	Art Unit				
	Thomas R. Hannon	3656				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 22 Ma	ay 2007.					
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3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) <u>1-8</u> is/are pending in the application.	4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>05 September 2006</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of: 1.□ Certified copies of the priority documents have been received.						
	<u> </u>					
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 12/12/06. 5) Notice of Informal Patent Application Other:						

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3 and 5-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka et al. JP 3-260415.

Tanaka discloses in Figures 3 and 4 a fluid dynamic bearing apparatus comprising a hydrodynamic groove region in which a plurality of hydrodynamic grooves (7) are arranged, a smooth surface (4) opposing the hydrodynamic groove region, and a bearing gap (6) which is formed between the hydrodynamic groove region and the smooth surface and in which a fluid dynamic pressure is produced by relative rotation of a fixed side and a rotation side, the smooth surface being defined by a step (adjacent 20) so that its length becomes shorter than that of the hydrodynamic groove region (L<1). With respect to claim 2, Tanaka discloses a bearing sleeve (36) and a shaft member (3), the bearing gap being formed between the inner circumferential surface of the bearing sleeve and the outer circumferential surface of the shaft member. With respect to claim 3, the shaft member of Tanaka is provided with a flange portion (39) overhanging to the outer diameter side and the bearing gap is further formed between an end face of the flange portion and a face opposing the end face. With respect to claims 5-7, the device of Tanaka is a motor.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 3656

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 4 and 8 are rejected under 35 U.S.C. 102(b) as anticipated by Tanaka et al. JP 3-260415 or, in the alternative, under 35 U.S.C. 103(a) as obvious over Tanaka et al. JP 3-260415 in view of Shiranami et al. JP 11-190344.

Regarding the method limitations of claim 4, it is noted the patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." In re Thorpe, 777F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985). The grooves of Thorpe anticipate the language of the product by process limitation of claim 4. Alternatively, the process of plastically processing a grooving pattern corresponding to its shape is shown to be known in the art by Shiranami, and thus it would have further been obvious to one of ordinary skill in the art at the time the invention was made to form the hydrodynamic grooves by the known process of plastically processing. With respect to claim 8, the device of Tanaka is a motor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thomas R. Hannon whose telephone number is (571) 272-7104. The examiner can normally be reached on Monday-Thursday (8:30-7:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard WL Ridley can be reached on (571) 272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/591,586 Page 4

Art Unit: 3656

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thomas R. Hannon/ Primary Examiner, Art Unit 3656